

# TRISTAR

## Technical Specifications – Flat Racks

The dimensions and ratings below are representative of Tristar Container's "typical" specifications. Individual container dimensions, ratings and specification details can be found by visiting our Unit Specifications page or by contacting a Tristar representative.

<b>Dimensions--External</b>	<b>20' Flat Rack</b>	<b>40' Flat Rack</b>	<b>40' Flat Rack XL</b>
<b>Length</b> (Base bottom casting):	6,058 mm	12,192 mm	12,192 mm
<b>Width</b> (Base bottom casting):	2,438 mm	2,438 mm	2,438 mm
<b>Height</b> (End frame erected):	2,591 mm	2,591 mm	2,591 mm
<b>Deck Height</b> (Adjacent to corner post):	370 mm	648 mm	632 mm
<b>Bottom Side Rail Camber Height</b> (At midpoint, unladen, unstacked):	20 mm	45 mm	50 mm
<b>Stack Height</b> (20':7 folded; 40':4 folded):	2,591 mm	2,591 mm	2,591 mm

### Dimensions--Internal

<b>Length</b> (Between end panels):	6,038 mm	12,180 mm	12,172 mm
<b>Length</b> (Between corner post reinforcements):	5,612 mm	11,776 mm	11,652 mm
<b>Length</b> (Between hinges at floor level):	5,552 mm	11,686 mm	11,630 mm
<b>Width</b> (Over bottom side rail):	2,210 mm	2,380 mm	2,374 mm
<b>Width</b> (Between corner posts):	2,225 mm	2,225 mm	2,212 mm
<b>Height</b> (Side rail adjacent to post to top casting):	2,213 mm	1,955 mm	1,959 mm

### Weight & Payload

<b>Tare Weight</b> (Design Estimate):	2,750 kg	5,400 kg	5,100 kg
<b>Maximum Gross Weight:</b>	34,000 kg	45,000 kg	50,000 kg
<b>Maximum Payload:</b>	31,250 kg	39,600 kg	44,900 kg

### Strength Tests

<b>Concentrated Load</b> Over center 2 meter span:	36,000 kg	40,320 kg	45,700 kg
<b>Floor:</b>	7,260 kg*	7,260 kg*	7,260 kg*
<b>Lashing Bars:</b>	5,000 kg	5,000 kg	5,000 kg

<b>Stanchion Pockets:</b>	500 kg	500 kg	500 kg
<b>Stacking (per post):</b>	104,000 kg	104,000 kg	97,200 kg

### Cargo Lashing System

<b>Lashing Bars (per bottom rail):</b>	4	4	6
<b>Lashing Bars (per end sill):</b>	2	2	2
<b>Stanchion Pockets (per bottom side rail):</b>	5	5	6
20' & 40' XL:	<i>One lashing point attached at each side of each stanchion pocket (total 2 points per stanchion)</i>		
40':	<i>Three lashing points attached at each side of each stanchion pocket (total 6 points per stanchion)</i>		

*One pair of forklift pockets on both 20' and 40' (for empty lifting only) as per ISO.*

*\* Five passes with ISO compliant test vehicle*